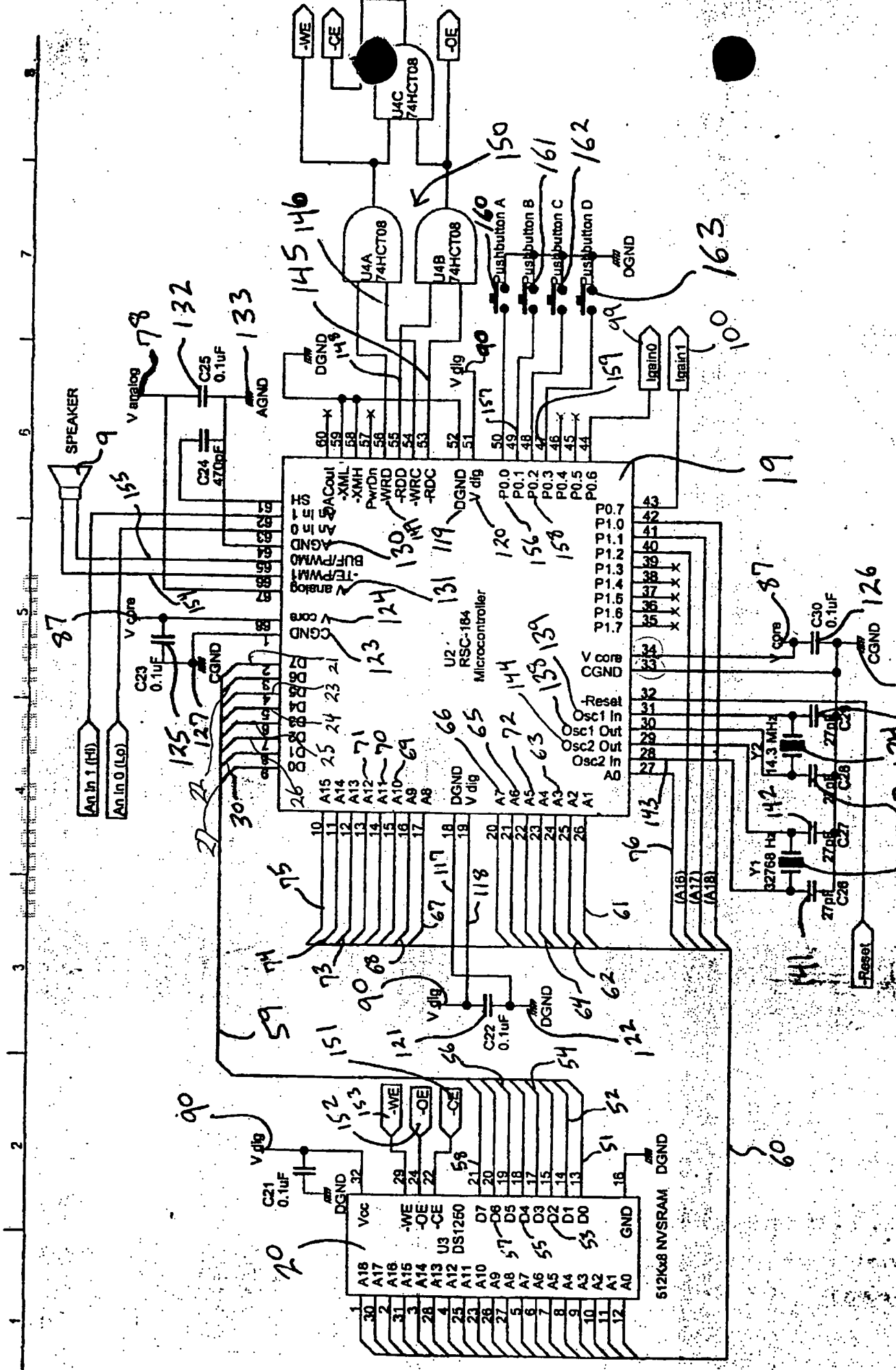



[illegible]

Recess for holding
simulated cigarette
(puff device) externally
so it can be cleaned
for sanitary reasons.





Baby Think It Over, Inc.

2700 Mountain Ave.
Bau City, MO 64001

Microcontroller

Drawn By: **Rick Jarmain**

Rev. 1

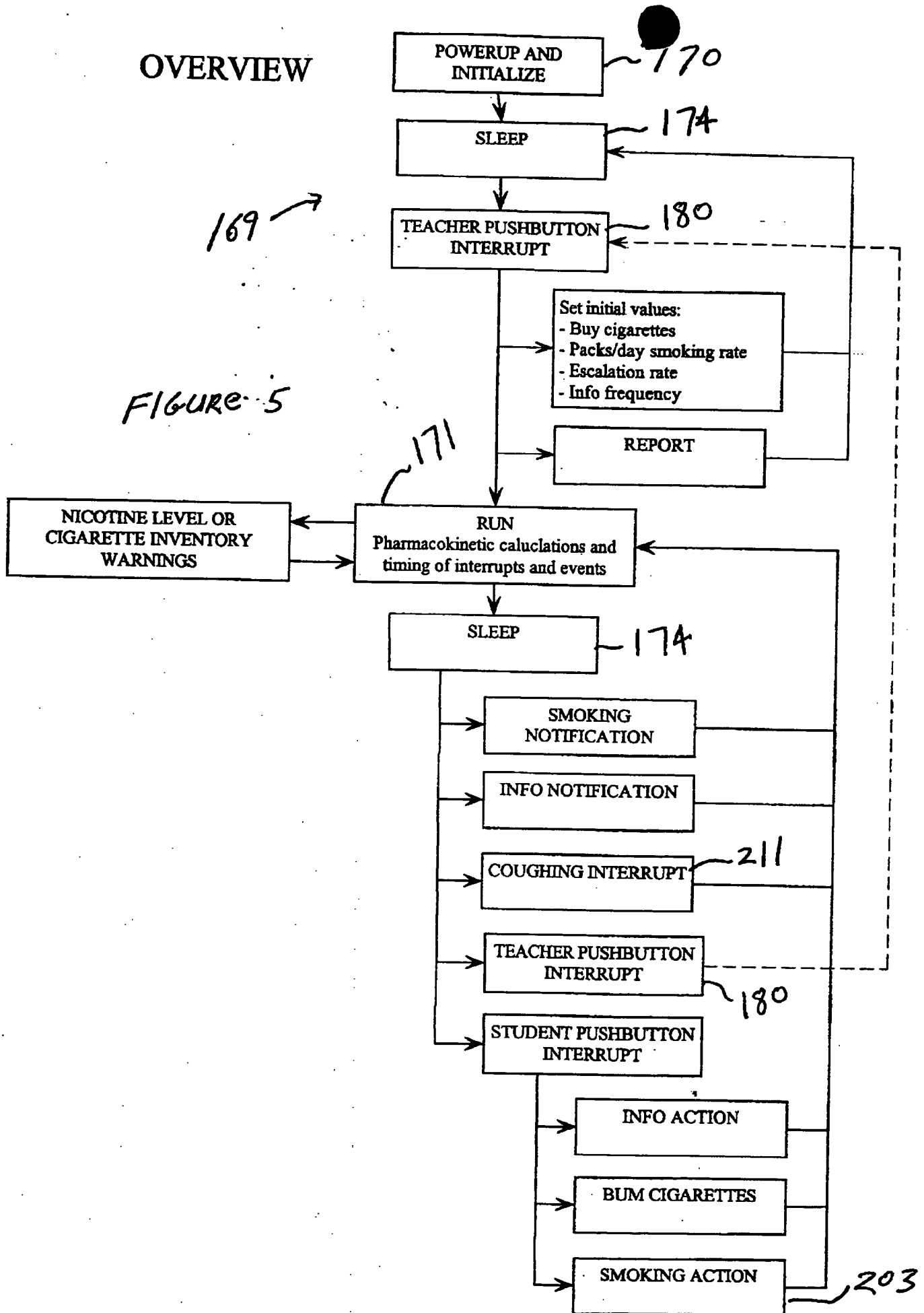
Creation Date: 01/04/99

Mod. Date: 01/06/99

Figure 4

OVERVIEW

FIGURE 5



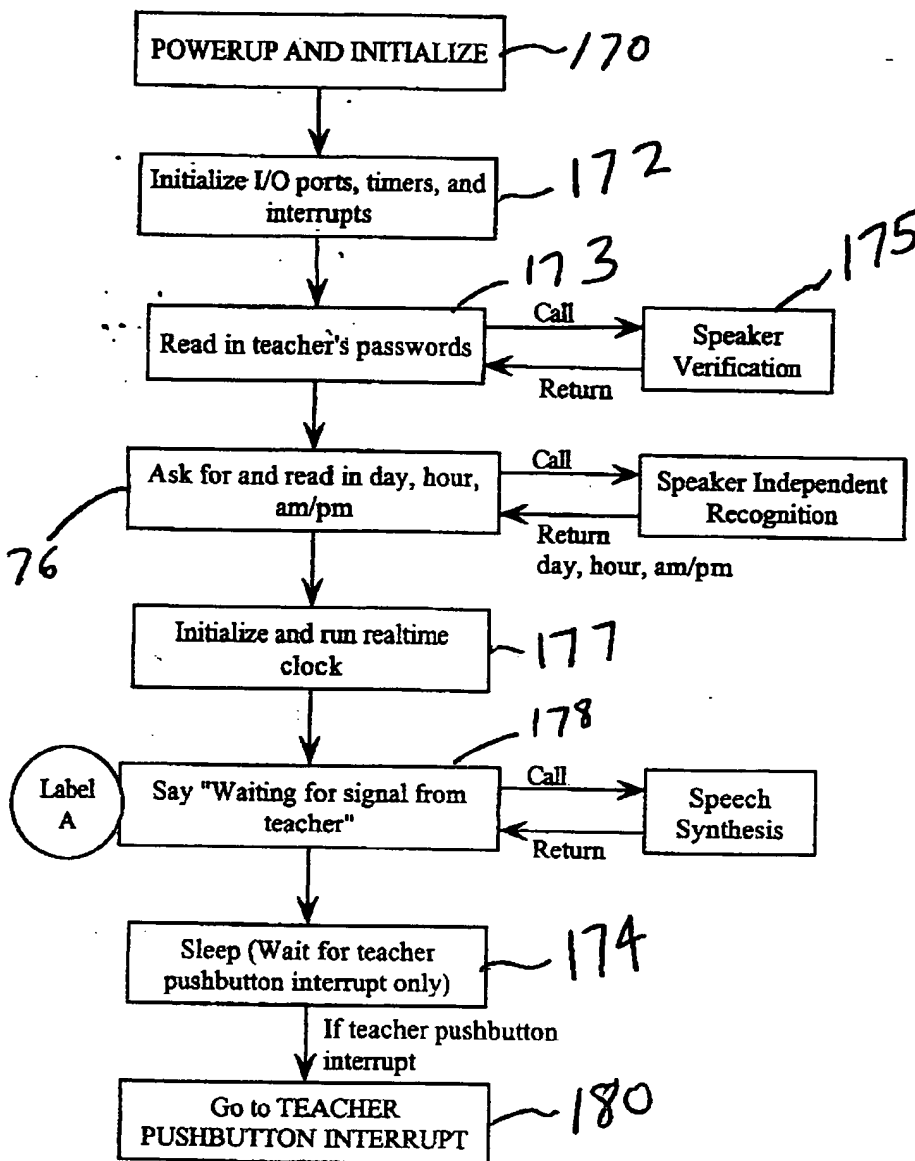


FIGURE 6

TEACHER
PUSHBUTTON INTERRUPT 180

Wakeup from Sleep 181

Go to A 178

Ask for and verify teacher's passwords 173

Speaker Verification 175

Pass

Ask for and read in teacher's command 182

Speaker Independent Recognition

Return command or fail

command "Report" 183

Speech Synthesis of report

Return

command "Run" 184

Go to "RUN" 171

command "Buy cigarettes" 185

Ask for and read in "How many packs, 0-12?" Then store result. 191

Return

command "Packs/day" 186

Ask for and read in "Number of packs/day?" Then store result. 192

Return

command "Escalation rate" 187

Ask for and read in "Low, medium, high?" Then store result. 193

Return

command "Metabolic rate" 188

Ask for and read in "Low, medium, high?" Then store result. 194

Return

command "Susceptibility" 189

Ask for and read in "Low, medium, high?" Then store result. 195

Return

command "Info frequency" 190

Ask for and read in "Low, medium, high?" Then store result. 196

Return

Timeout r fail

Go to A 178

For example:
- elapsed time
- # smokes demanded
- # smokes done
- # delays
- # bummed cigs
- etc.

FIGURE 7

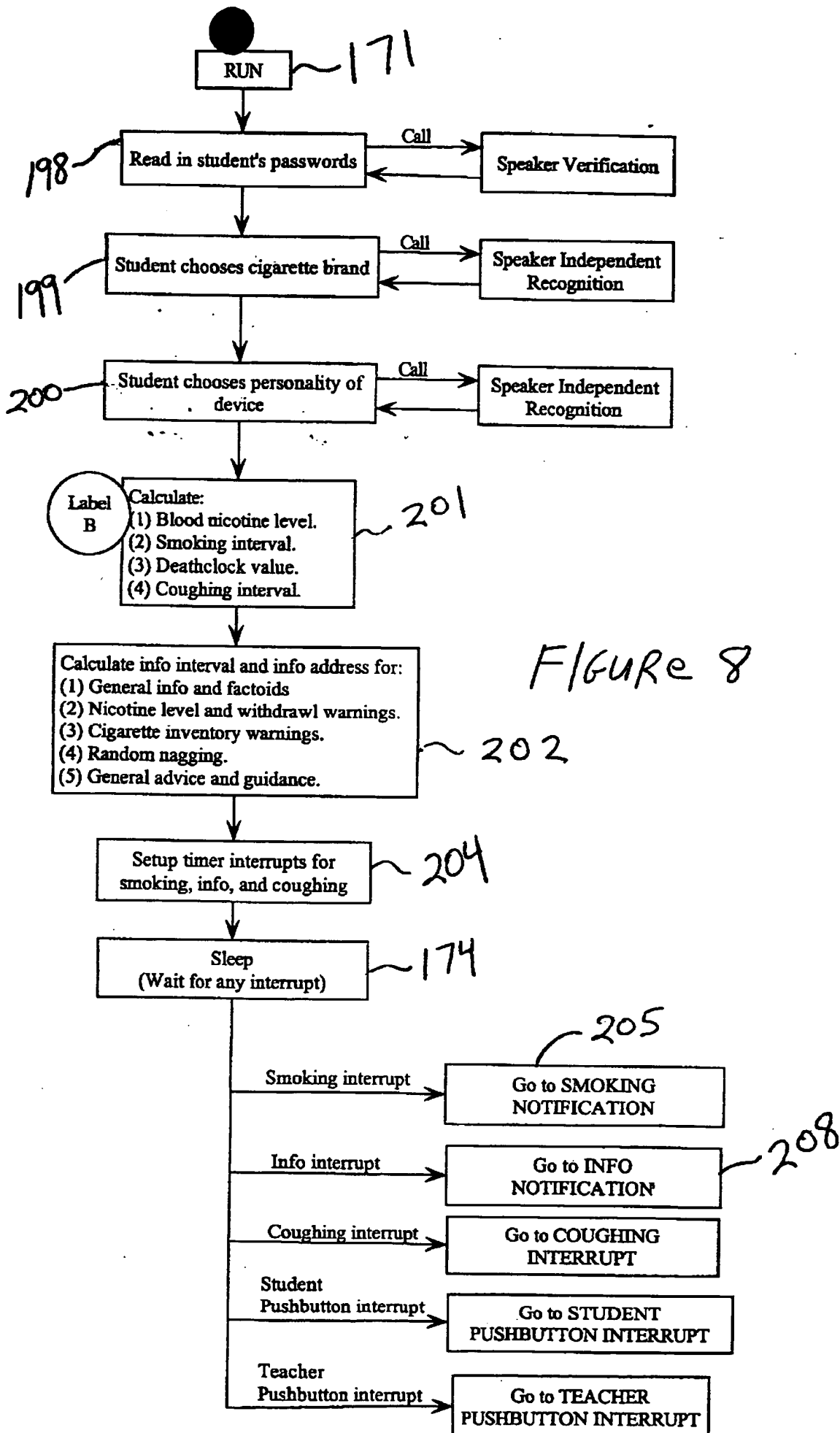


FIGURE 8

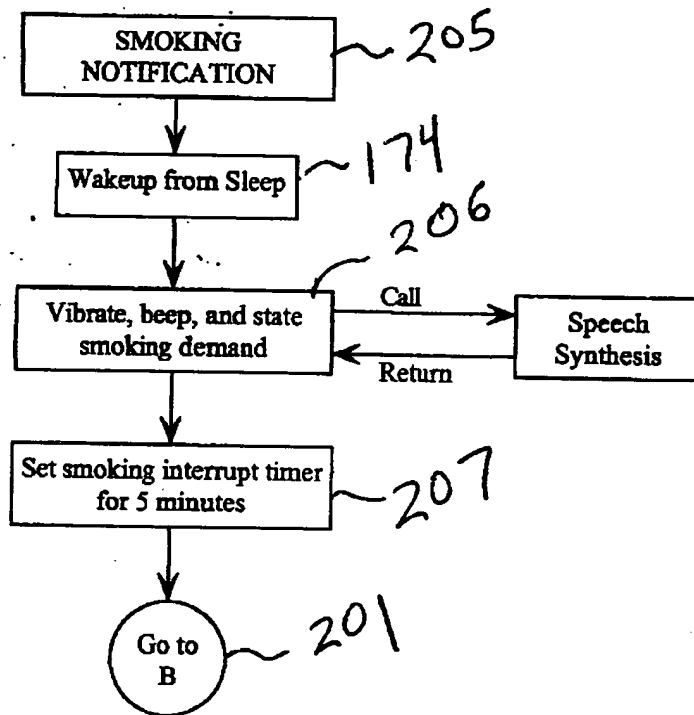


FIGURE 9

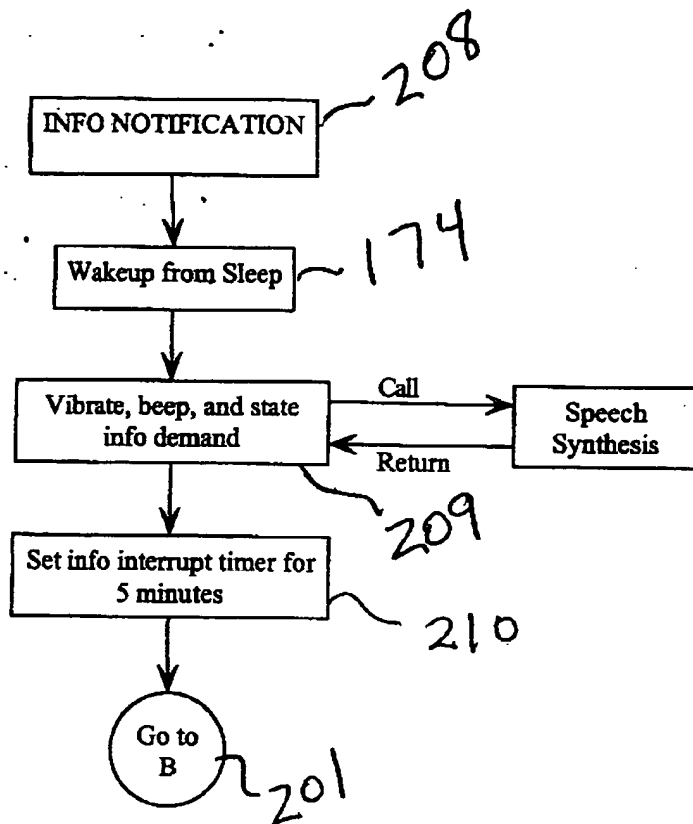


FIGURE 11

Microphone cavity in E-box for puff sensing
(with straw inserted) and other sound sensing
(without straw).

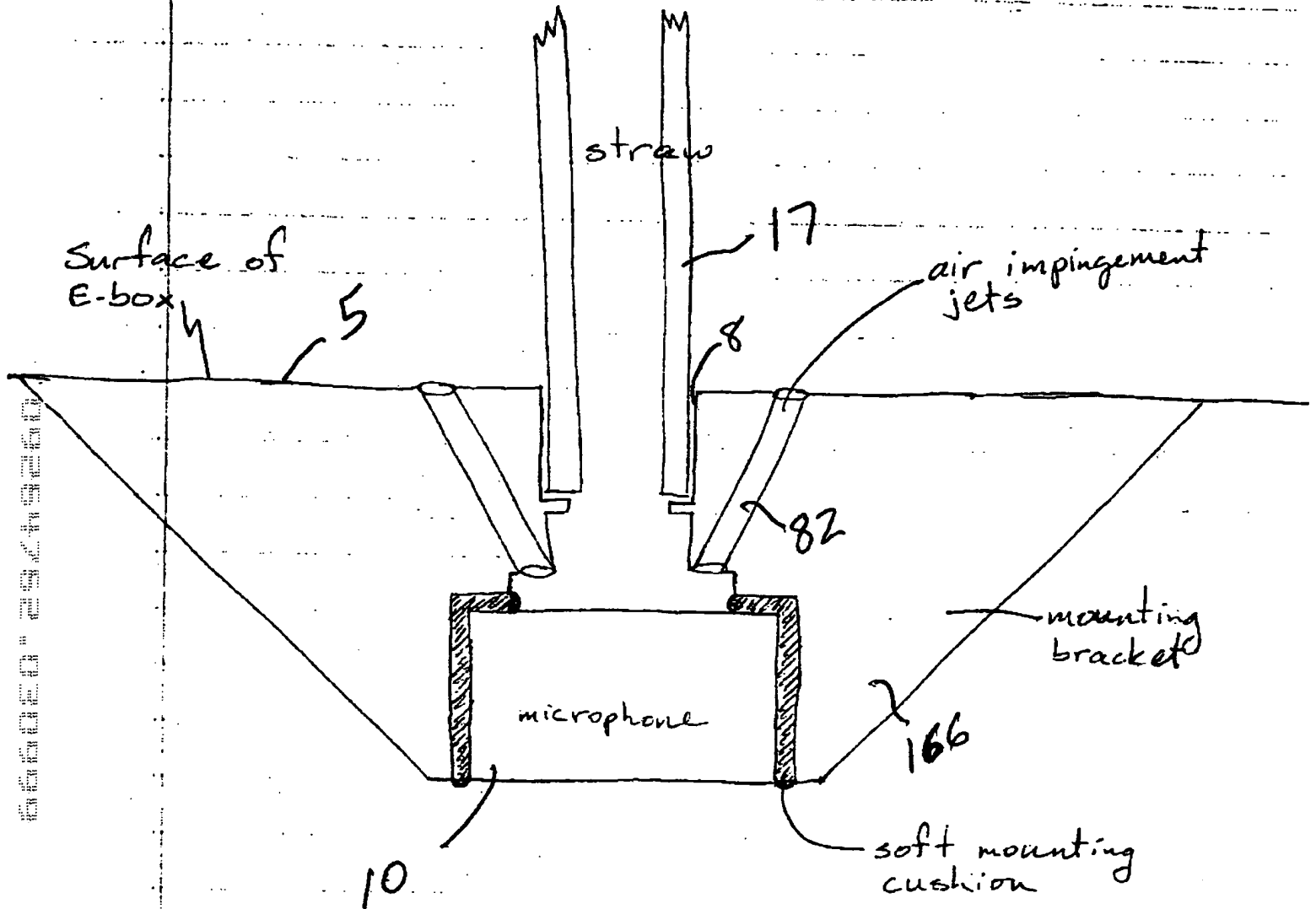


FIGURE 12

Puff device with flow restriction.

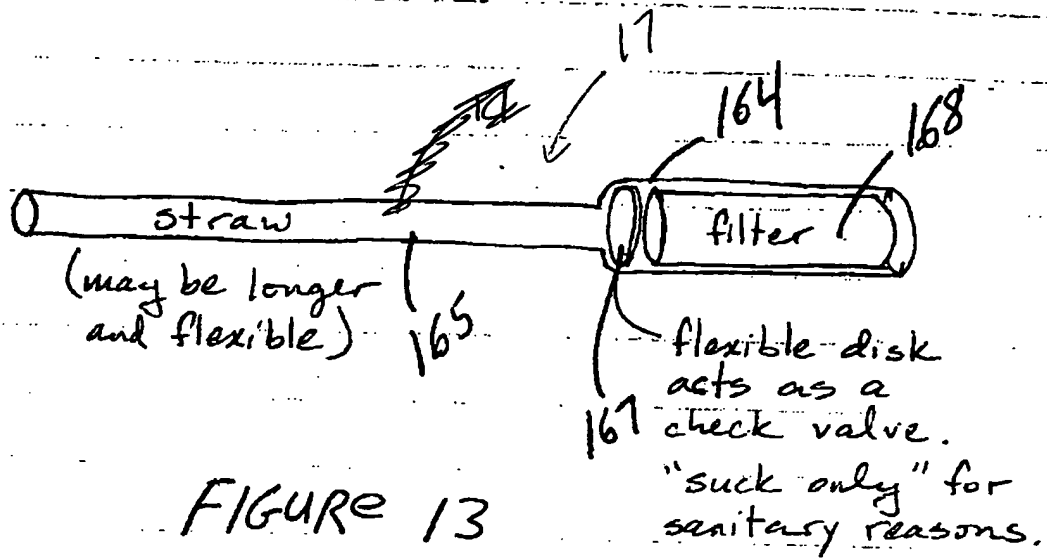


FIGURE 13

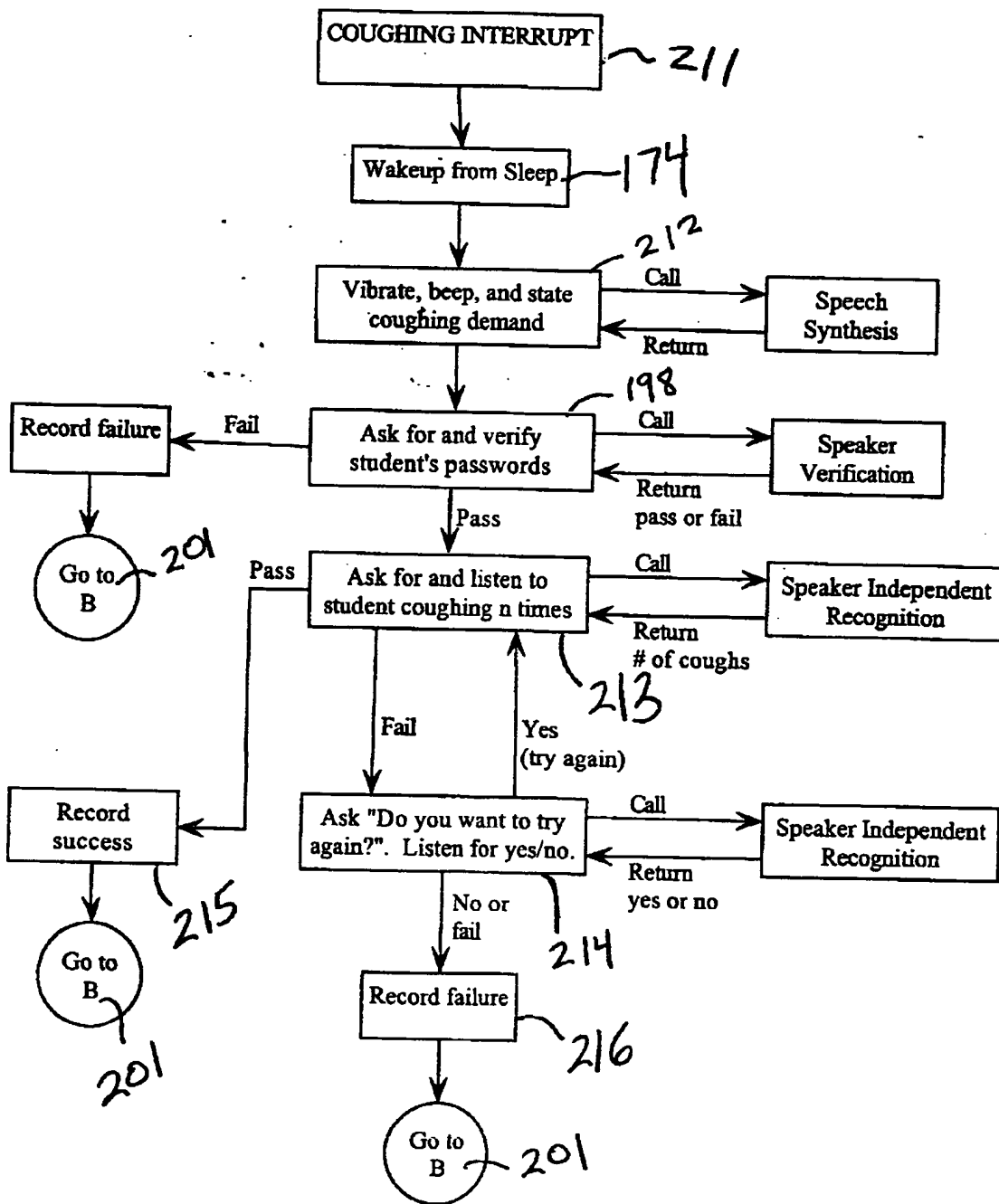


FIGURE 14

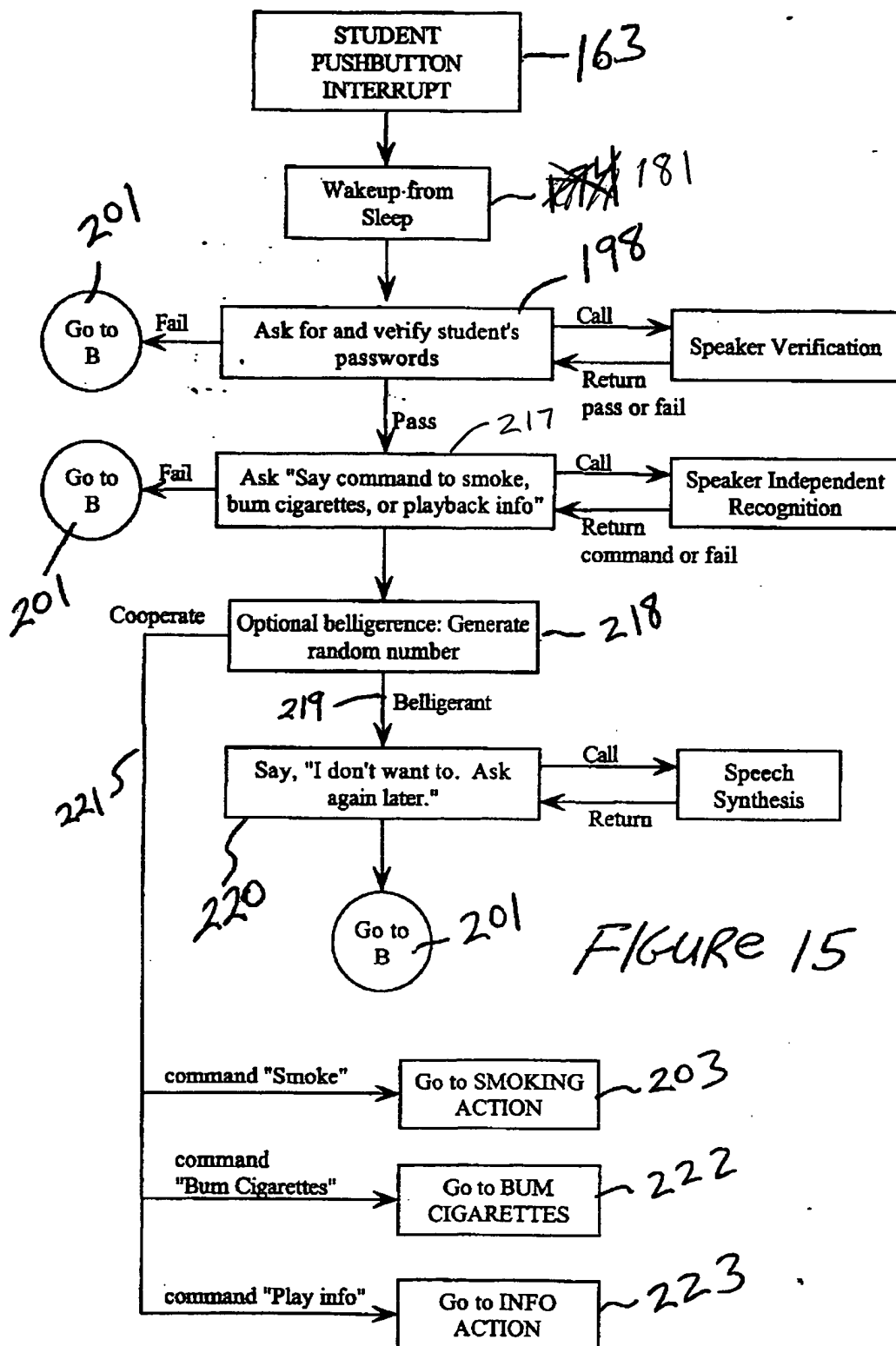
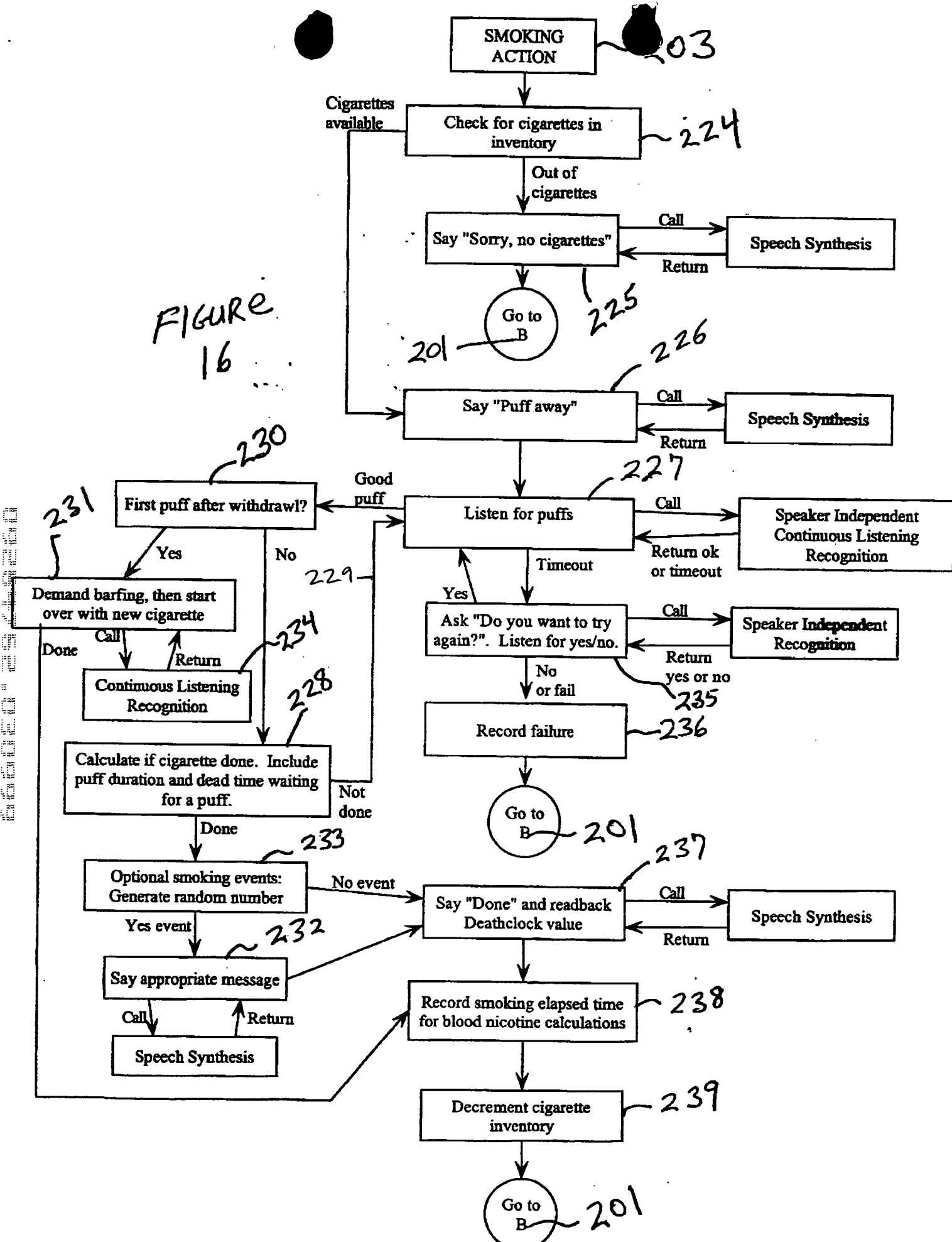


FIGURE 15

FIGURE 16



```

graph TD
    222[BUM CIGARETTES] --> 240[Ask "Do you want to give or receive a cigarette?"]
    240 -- Call --> 242[Speaker Independent Recognition]
    242 -- "Return give or receive" --> 240
    240 -- Receive --> 246[For 10 seconds:  
One half second of Playback "Receiving" tone.  
One half sec of Listen for "Given" tone.]
    240 -- Fail --> 241((Go to B))
    240 -- Give --> 243[For 10 seconds:  
Continuous Listen for "Receiving" tone.]
    246 -- "Recognized 'Given' tone" --> 247[Increment inventory and number of cigarettes received by bumming.]
    246 -- Fail --> 241
    243 -- "Recognized 'Receiving' tone" --> 243a[Playback "Given" tone]
    243a --> 243b[Speech Synthesis]
    243b --> 243a
    243a --> 244[Decrement inventory and increment number of cigarettes given by bumming.]
    244 --> 241
    247 --> 201(( ))
    241 --> 201
    244 --> 201
    201 --> 222

```

FIGURE 17

245

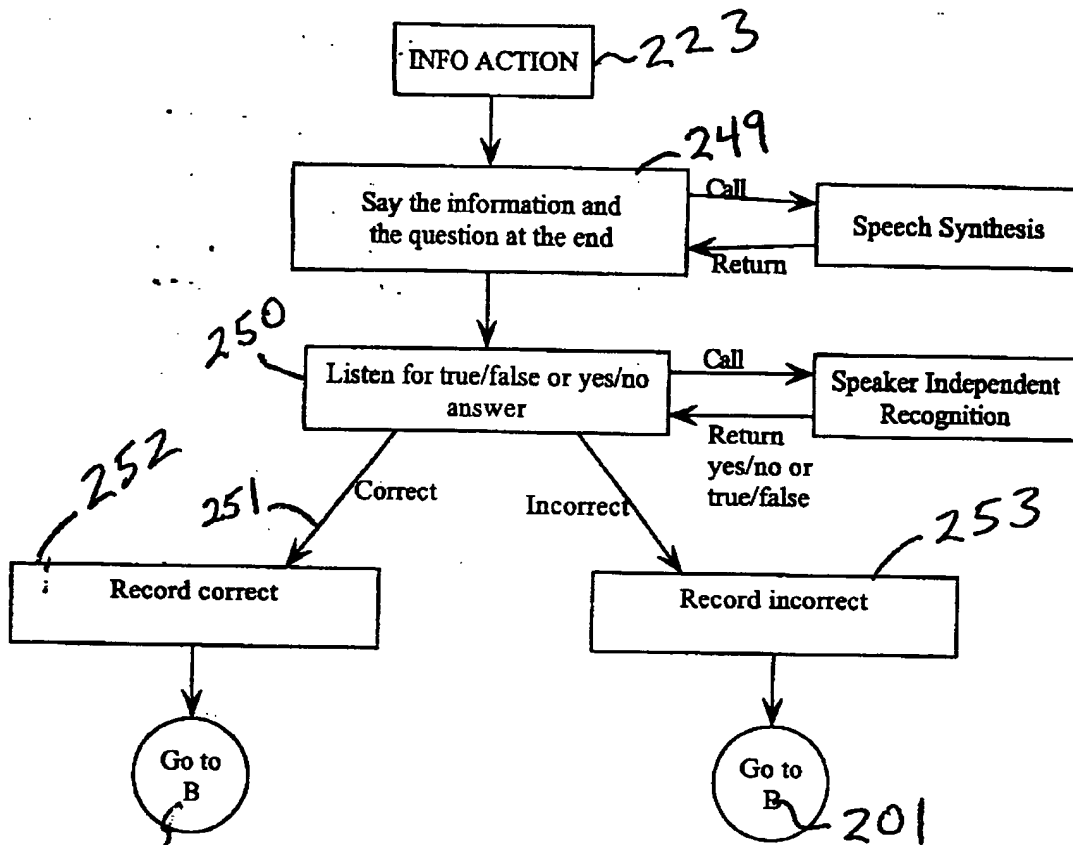


FIGURE 18